Panasonic

Ideas for Wireless Solutions

PAN9320 full embedded WiFi Module
Stand-alone 802.11 b/g/n, 32-bit MCU

OUTLINES

PAN9320 is a stand alone 2.4GHz 802.11 b/g/n WiFi module, which can be integrated into various end applications. All protocols and applications are included and handled by the MCU on the module. Layout design efforts, calibration- and test efforts in production are reduced compared to discrete solutions. In Transparent Mode all data is send unmodified to e.g. smart devices, web server or pc applications via the UART interface of PAN9320. This significantly reduces time to market and development risks as internet functionality can be added very easily to exisiting end products with low performance host controller. The integrated memory can be used in the end application to store individual web contents such as html pages or image data.

Simultanious support of Accesspoint- & Infrustructure Mode enable easy setup up, allowing simultanious WiFi connections from PAN9320 to smart devices and home area network routers. State of the art security protocols guarantee secured data transfer e.g. via integrated e-mail client or to cloud services.

WIRELESS MODULES
Panasonic Industrial Devices Europe GmbH

FEATURES

- Surface Mount Type 29,0 x 13.5 x 2.66 mm³
- Wireless Local Area Network (WiFi) module with integrated MCU and Radio (SoC)
- Integrated embedded WiFi stack, interfaces Telnet, http, Ajax, Jason, others
- Simultanous support of Accesspoint- & Infrustructure Mode
- Supports TLS/SSL, https and WiFi security (WPA2) for secure data connection
- Plug&Play Name Services (DHCP, DNS) and access by names (http://yourdevice)
- Wireless Update of Radio Driver and MCU Firmware with integrated bootloader
- Supports IEEE 802.11 b/g/n, security standards WEP, WPA, WPA2, WPA2 PSK
- Tx power up to +18 dBm (IEEE 802.11b CCK) and 14dBm (IEEE 802.11g ODFM)
- High Rx sensitivity -98 dBm (IEEE 802.11b DSSS 1Mbps)
- Marvell® 88W8782 WLAN System-on-Chip (SoC) and 88MC200 (MCU) inside
- Integrated flash for customer web contents and configuration file 1,5MB (extentable)
- Easy to use Evaluation Board for quick development and reduced time to market
- Use of WebTechnologies (HTML, JavaScript), no need for WiFi Stack implementation
- Ready to use internet access (integrated EMail Server and Cloud Communication Client)
- Getting started Tutorials, Libraries, APIs
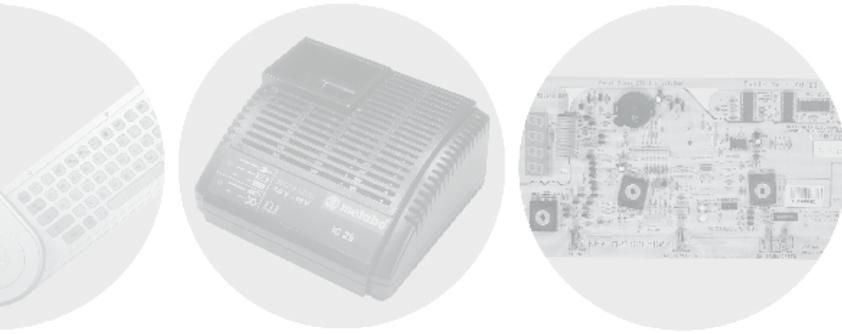- Evaluation and Development software Wifigurator for Windows

**Hardware Status:
Engineering Samples**

Panasonic

APPLICATIONS

- White goods
- Home Automation
- Internet of Things
- Fitness Equipment
- Lighting Control
- M2M Communication
- Patient Monitors

- Printer
- Smart Meters
- Media Player
- Sensors
- Health&Fitness
- POS Terminal

Part Number

Part-Number	Description
ENW49A01A3EF	PAN9320, VIPAR stack -30~70°C, chip antenna
ENW49A01AYEF	PAN9320-EMK
ENW49A01AZEF	PAN9320-IDB

BLOCK DIAGRAM
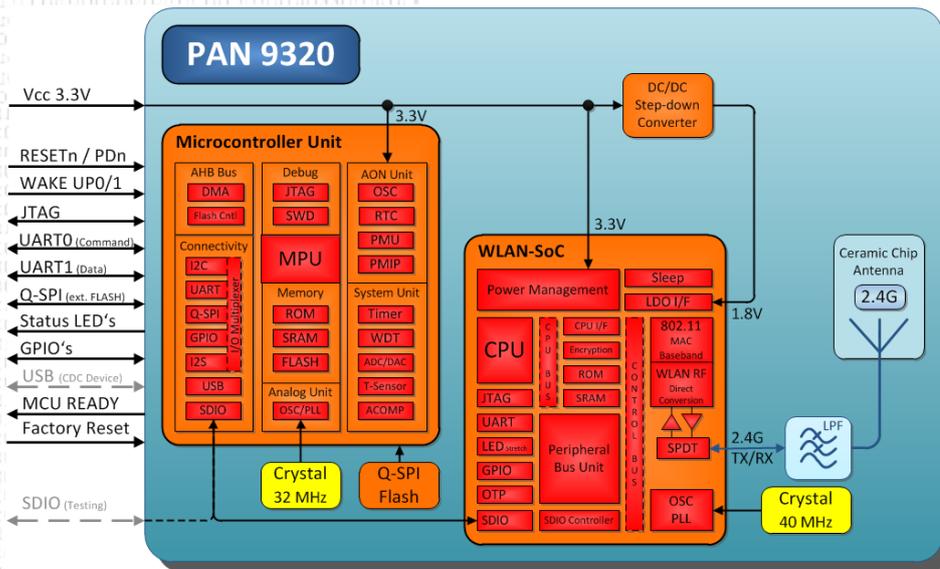
TECHNICAL CHARACTERISTICS

Parameter	Value	Condition / Note
Software		Full Embedded
Rx Sensitivity	-98 dBm	@1M-DSSS (Details see Datasheet)
Tx Power	+18 dBm	@ 11b
Power Supply	3.0 to 3.6 V	
Current Consumption	430 mA, 160 mA	Tx, Rx max @11b
Centre Frequency	2.4 GHz	802.11 b/g/n
Operating Temperature Range	-30~70°C	
Size	29.0x13.5x2.66	mm

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for panasonic *manufacturer:*

Other Similar products are found below :

ECE-A1HKAR47   ELC-09D151F   HC2-H-DC48V-F   HL2-HP-AC120V-F   HL2-H-DC12V-F   HL2-HP-DC12V-F   HL2-HP-DC6V-F   HL2-HP-DC24V-F   HL2-H-DC110V-F   HC4-H-DC24V   HL2-HTM-DC24V-F   HL2-HTM-AC24V-F   HC4-H-AC24V   HC4-H-AC120V   HC4-H-DC12V   AZH2031   RP-SDMF64DA1   EVM-F6SA00B55   RP-SMLE08DA1   ERZ-V20R391   ELL-ATV681M   ERZ-V05V680CB   LT4H-DC24V   LT4HL8-AC24V   LT4HW-AC24V   LT4HWT8-AC240V   LT4HWT-AC240VS   CY-122A-P   ETQ-P5M470YFM   EVAL_PAN1555   EVQ-PAE04M   EX-14B   EX-22B-PN   EX-31A-C5   EXB-24N121JX   EX-F72-PN   EX-L211   EYG-A121803V   FCR-M50-AC208V   FC-SFBH-20   FC-SFBH-24   FD-F8Y   MHMA102A1C   MHMD022S1S   MHMD041S1S   MHMD042G1T   MHMD082G1T   FD-S9   FP0-LDR   FP2-AD8X